

First Hit

L9: Entry 1 of 6

File: DWPI

May 10, 2002

DERWENT-ACC-NO: 2000-677104  
DERWENT-WEEK: 200272  
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TITLE: Vibration apparatus for generating and externally transmitting sound wave of audible frequency to notify communication device e.g. portable phone, beeper etc uses driving controller to select frequency current into voice and vibrating coils

INVENTOR: CHUNG, S H; CHUNG, S T ; LEE, I H ; JEONG, S H ; JEONG, S T

PATENT-ASSIGNEE: SAMSUNG ELECTRICS CO LTD (SMSU), SAMSUNG ELECTRO MECHANICS CO LTD (SMSU)

PRIORITY-DATA: 1998KR-0023815 (June 24, 1998), 1998KR-0022244 (June 15, 1998), 1998KR-0022659 (June 17, 1998), 1998KR-0023812 (June 24, 1998), 1998KR-0023813 (June 24, 1998), 1998KR-0023814 (June 24, 1998)

Search Selected

Search ALL

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## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input type="checkbox"/> KR 330667 B	May 10, 2002		000	H04R001/00
<input type="checkbox"/> KR 2000002868 A	January 15, 2000		000	H04R017/00
<input type="checkbox"/> US 6211775 B1	April 3, 2001		018	H04B003/36

## APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
KR 330667B	June 24, 1998	1998KR-0023815	
KR 330667B		KR2000002868	Previous Publ.
KR2000002868A	June 24, 1998	1998KR-0023815	
US 6211775B1	April 22, 1999	1999US-0296364	

INT-CL (IPC): H04 B 3/36; H04 R 1/00; H04 R 17/00

RELATED-ACC-NO: 2000-677082;2000-677086 ;2000-677101 ;2000-677102 ;2000-677103

ABSTRACTED-PUB-NO: KR2000002868A

## BASIC-ABSTRACT:

NOVELTY - If a high frequency current is inputted, a vibrating plate (40) or a vibrating body moves up and down and generate a sound wave to notify of reception of an incoming call. If a low frequency current is inputted, because currents having different polarities flow to both ends of the vibrating coils (70) that are disposed side-by-side and opposite to a magnet (30), the magnet on which the pair are attaches seesaws sideways to generate vibration.

USE - For generating and externally transmitting sound wave of audible frequency to notify communication device e.g. portable phone, beeper etc.

ADVANTAGE - It helps promote the miniaturization and thinning of the communication device by performing sounding and vibrating functions.

DESCRIPTION OF DRAWING(S) - The figure shows a longitudinal cross-sectional view of vibration apparatus.

Sound Discharging Hole 11

Magnet 30

Vibrating Plate 40

Voice Coil 50

Vibrating Coils 70

ABSTRACTED-PUB-NO: US 6211775B  
EQUIVALENT-ABSTRACTS:

NOVELTY - If a high frequency current is inputted, a vibrating plate (40) or a vibrating body moves up and down and generate a sound wave to notify of reception of an incoming call. If a low frequency current is inputted, because currents having different polarities flow to both ends of the vibrating coils (70) that are disposed side-by-side and opposite to a magnet (30), the magnet on which the pair are attaches seesaws sideways to generate vibration.

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Sound Discharging Hole 11

Magnet 30

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Vibrating Coils 70

CHOSEN-DRAWING: Dwg.3/19 Dwg.3/19

DERWENT-CLASS: V06 W01 W02

EPI-CODES: V06-E01A; V06-M04A; V06-U04; W01-C01D3C; W01-C01F1F; W02-C01E;

First Hit**End of Result Set**

L1: Entry 2 of 2

File: DWPI

Jan 22, 2003

DERWENT-ACC-NO: 1998-318915

DERWENT-WEEK: 200532

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TITLE: Dexterous vibration generation system for portable machine e.g. small-sized data transmitter - has soft elastic body arranged at fixed areas along internal peripheral surface of frame to allow oscillation of first vibration system towards centre line of frame

INVENTOR: FUJIWARA, N; INUKAI, S ; MATSUNAMI, T ; NAGAIKE, M ; SHIMAKAWA, S

PATENT-ASSIGNEE: MATSUSHITA ELECTRIC IND CO LTD (MATU) , MATSUSHITA DENKI SANGYO KK (MATU)

PRIORITY-DATA: 1996JP-0270929 (October 14, 1996), 1995JP-0327536 (December 15, 1995)

Search Selected

Search ALL

Clear

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input type="checkbox"/> <u>CN 1099658 C</u>	January 22, 2003		000	G08B005/22
<input type="checkbox"/> <u>JP 10117472 A</u>	May 6, 1998		007	H02K033/18
<input type="checkbox"/> <u>US 5894263 A</u>	April 13, 1999		000	G08B003/00
<input type="checkbox"/> <u>KR 98032013 A</u>	July 25, 1998		000	H04R009/02
<input type="checkbox"/> <u>KR 245379 B1</u>	February 15, 2000		000	H04B005/04
<input type="checkbox"/> <u>SG 79927 A1</u>	April 17, 2001		000	G08B007/00
<input type="checkbox"/> <u>CN 1158282 A</u>	September 3, 1997		000	B06B001/04

## APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
CN 1099658C	December 13, 1996	1996CN-0121384	
JP 10117472A	October 14, 1996	1996JP-0270929	
US 5894263A	December 12, 1996	1996US-0764504	
KR 98032013A	December 6, 1996	1996KR-0066401	
KR 245379B1	December 16, 1996	1996KR-0066401	
SG 79927A1	December 14, 1996	1996SG-0011724	
CN 1158282A	December 13, 1996	1996CN-0121384	

INT-CL (IPC): B06 B 1/04; G08 B 3/00; G08 B 5/22; G08 B 7/00; H02 K 33/18;  
H04 B 5/04; H04 R 1/24; H04 R 9/02

RELATED-ACC-NO: 1997-391806;2002-648431